

**WEST**☐ **Generate Collection** ☐ **Print**

L21: Entry 5 of 6

File: DWPI

Aug 22, 2001

DERWENT-ACC-NO: 2000-317435

DERWENT-WEEK: 200149

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TITLE: Flexible, water-soluble or water-dispersible coating agent, binder or film former for pharmaceutical formulations, comprises new or known vinyl ester-polyether graft copolymer,

INVENTOR: ANGEL, M; GOTSCHÉ, M ; KOLTER, K ; LEINENBACH, A ; SANNER, A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BASF AG

BADI

PRIORITY-DATA: 1999DE-1031667 (July 8, 1999), 1998DE-1044903 (September 30, 1998), 1999DE-1005906 (February 11, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1124541 A1	August 22, 2001	G	000	A61K009/28
WO 200018375 A1	April 6, 2000	G	054	A61K009/28
DE 19905906 A1	August 17, 2000		000	C08L031/00
DE 19931667 A1	January 11, 2001		000	C08L031/02

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT RO SE SI CN JP RO SI US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1124541A1	September 24, 1999	1999EP-0948859	
EP 1124541A1	September 24, 1999	1999WO-EP07123	
EP 1124541A1		WO 200018375	Based on
WO 200018375A1	September 24, 1999	1999WO-EP07123	
DE 19905906A1	February 11, 1999	1999DE-1005906	
DE 19931667A1	July 8, 1999	1999DE-1031667	

INT-CL (IPC): A61 K 9/20; A61 K 9/28; A61 K 9/30; A61 K 47/34; C08 F 218/08; C08 F 283/06; C08 L 29/10; C08 L 31/00; C08 L 31/02; C08 L 59/00; C08 L 71/00; C08 L 71/02

RELATED-ACC-NO: 2000-284367

ABSTRACTED-PUB-NO: WO 200018375A

BASIC-ABSTRACT:

NOVELTY - The use of polymers (I), obtained by graft polymerization of vinyl esters of aliphatic carboxylic acids onto polyethers (II), as coating agent, binder and/or film-former in pharmaceutical dosage forms is new. Some (I) are new compounds.

DETAILED DESCRIPTION - The use of polymers (I), obtained by polymerization of at least one vinyl ester of a 1-24C aliphatic carboxylic acid in presence of a polyether of

formula (II), is claimed as coating agent, binder and/or film-forming auxiliary in pharmaceutical dosage forms.

R1 = H, R9, R9C(O)-, R9NHC(O)- or a polyol residue;

R8 = H, R9, R9C(O)- or R9NHC(O)-;

R2-R7 = (CH<sub>2</sub>)<sub>2</sub>, (CH<sub>2</sub>)<sub>3</sub>, (CH<sub>2</sub>)<sub>4</sub>, CH<sub>2</sub>CH(Me), CH<sub>2</sub>CH(Et) or CH<sub>2</sub>CH(OR<sub>10</sub>)CH<sub>2</sub>;

R9 = 1-24C alkyl;

R<sub>10</sub> = H, R9 or R9C(O)-;

A = C(O)O, C(O)-B-C(O)O or C(O)NH-B-C(O)O;

B = (CH<sub>2</sub>)<sub>t</sub> or arylene (optionally substituted);

n = 1-8;

s = 0-500;

t = 1-12;

u, x = 1-5000;

v, w, y, z = 0-5000.

INDEPENDENT CLAIMS are included for:

(a) pharmaceutical dosage forms containing (I); and

(b) new polymers (I'), as defined for (I) above provided that:

(i) R1 and R8 are other than R9NHC(O)-, A is other than C(O)NH-B-C(O)O and s is other than 0;

(ii) R1 and R8 are other than R9NHC(O)-, R2-R4 are other than CH<sub>2</sub>CH(OR<sub>10</sub>)CH<sub>2</sub>, A is other than C(O)NH-B-C(O)O, s = 0 and (I) also contain units derived from at least further monomer (III) selected from 3-8C monoethylenically unsaturated carboxylic acids (or their 1-24C alkyl or 1-24C hydroxyalkyl esters), 1-24C alkyl-vinyl ethers or N-vinyl-lactams; or

(iii) (II) is a polyglycerol in which R2 = CH<sub>2</sub>CH(OR<sub>10</sub>)CH<sub>2</sub>; s, v, w = 0; u = 1-2000; and

R1 and R8 are other than R9NHC(O).

USE - (I) are typically useful as: (1) coatings for film tablets, film micro-tablets, dragees, pastilles, capsules, pellets, granules or crystals); (2) binders for tablets, microtablets, cores, granules or pellets; or (3) film-formers in solutions or sprays for application to the skin or mucosa, e.g. for wound treatment or transdermal drug delivery. (I) may additionally serve as protective colloids; wetting and solubilizing agents in disperse systems; agents for improving the solubility, dissolution speed, resorption and bioavailability of sparingly water-soluble drugs; dispersion or suspension auxiliaries; emulsifiers; crystallization or caking inhibitors; bioadhesives; spreading auxiliaries; viscosity regulators; auxiliaries in the preparation of solid drug solutions; release auxiliaries in retard formulations; or (in the case of water-insoluble but water-dispersible polymers) retard polymers or adhesives for plasters. (I) may also be used in the preparation of suppositories or vaginal ovules.

ADVANTAGE - (I) are readily soluble or dispersible in gastric fluid. They have high flexibility, high elasticity (e.g. an extension at break of up to 300%) and low viscosity, and can generally be used without plasticizers. (I) give surfaces of low lipophilicity, and have good protective colloid properties. Powders, granules or

tablets having (I) as coating or binder dissolve or redisperse rapidly in water or gastric fluid, without forming agglomerates. Use of (I) as binder rather than hydroxypropyl methyl cellulose provides tablets having markedly higher mechanical strength and stability. (I) can be used for coating or binding in the form of concentrated preparations, to save time and expense.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: FLEXIBLE WATER SOLUBLE WATER DISPERSE COATING AGENT BIND FILM FORMER  
PHARMACEUTICAL FORMULATION COMPRISE NEW VINYL ESTER POLYETHER GRAFT COPOLYMER

DERWENT-CLASS: A14 A25 A96 B07

CPI-CODES: A04-F09; A04-F10; A05-H01B; A10-C03; A10-D; A10-E01; A12-V01; B04-C03;  
B12-M11K;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M710 M781 M905 N104 N152 Q120 Q616

Specific Compounds

A00I9N A00I9U

Chemical Indexing M1 \*02\*

Fragmentation Code

G001 G002 G011 G012 G013 G014 G015 G016 G020 G021

G022 G029 G040 G100 G221 H401 H402 H403 H404 H405

H481 H482 H483 H484 H581 H582 H583 H584 J0 J012

J013 J014 J2 J231 J232 J271 J272 J273 L462 L463

L472 L499 L660 L699 M210 M211 M212 M213 M214 M215

M216 M220 M221 M222 M223 M224 M225 M226 M231 M232

M233 M262 M272 M273 M280 M281 M282 M283 M311 M312

M313 M314 M315 M316 M321 M322 M323 M331 M332 M333

M340 M342 M343 M349 M381 M382 M383 M391 M392 M393

M414 M416 M423 M510 M520 M531 M540 M620 M710 M781

M904 M905 N104 N152 Q120 Q616

Markush Compounds

200016-35801-N 200016-35801-U

Chemical Indexing M6 \*03\*

Fragmentation Code

M905 Q120 Q616 R043 R120 R303 R307 R308

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00460 G0306 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60 D84 F36 F35  
H0146 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60 D83 F36 F35 H0146 ; G0657  
G0022 D01 D12 D10 D23 D22 D31 D41 D51 D53 D58 D77 D88 F71 H0146 ; G0668 G0022 D01 D12 D10 D23 D22  
D31 D45 D51 D53 D58 D75 D85 N\* 5A H0146 ; G0635 G0022 D01 D12 D10 D23 D22 D31 D41 D51 D53 D58 D75  
D86 F71 H0146 ; R00113 G1070 G0997 D01 D11 D10 D50 D83 F29 F26 ; G0022\*R D01 D51 D53 D22\*R D41 D58  
F71 H0146 ; G0588\*R G0022 D01 D12 D10 D51 D53 D58 F34 D11 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92  
D93 D94 D95 H0146 ; G0022\*R D01 D51 D53 D11 D10 D60 D63 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94  
D95 F41\*R F35\*R F26\*R H0146 ; G0566\*R G0022 D01 D12 D10 D51 D53 D58 D63 F41 F89 D83 D84 D85 D86 D87  
D88 D89 D90 D91 D92 D93 D94 D95 D10\*R H0146 ; D11 D10 D50 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91  
D92 D93 D94 D95 F27 F26 F34 ; D11 D10 D50 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 E00\*R  
D18\*R ; H0022 H0011 ; H0033 H0011 ; L9999 L2528 L2506 ; L9999 L2299 ; L9999 L2299 ; L9999 L2062 ; K9814  
K9803 K9790 ; L9999 L2664 L2506 ; L9999 L2675 L2506 ; L9999 L2517 L2506 ; L9999 L2551 L2506 ; M9999  
M2153\*R ; M9999 M2186 ; M9999 M2200 ; M9999 M2824 ; M9999 M2313 ; P0975\*R P0964 F34 D01 D10 ; P1978\*R  
P0839 D01 D50 D63 F41 ; P0953 P0839 P0964 H0260 F34 F41 D01 D63 ; P0931\*R P1592 P0839 H0260 H0011  
H0044 F41 F77 D01 D63 ; P1058\*R P1592 P0964 H0260 F34 F77 H0044 H0011 D01 ; P1069 P1058 P1592 P0964  
H0260 F34 F77 H0033 H0044 H0011 P0055 D01 D10 ; H0260 ; H0077 H0044 H0011 ; H0011\*R ; P0088 Polymer  
Index [1.2] 018 ; ND01 ; Q9999 Q7114\*R ; Q9999 Q8037 Q7987 ; B9999 B4035 B3930 B3838 B3747 ; B9999

B3521\*R B3510 B3372 ; B9999 B3430 B3372 ; Q9999 Q6791 ; B9999 B5094 B4977 B4740 ; B9999 B3930\*R B3838 B3747 ; B9999 B3907 B3838 B3747 ; B9999 B3554\*R ; B9999 B3496 B3485 B3372 ; B9999 B4091\*R B3838 B3747 ; B9999 B4568\*R ; N9999 N6177\*R Polymer Index [2.1] 018 ; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 F89 H0146 ; P0975\*R P0964 F34 D01 D10 ; P0033 ; H0022 H0011 ; L9999 L2528 L2506 ; L9999 L2299 Polymer Index [2.2] 018 ; ND01 ; Q9999 Q7114\*R ; Q9999 Q8037 Q7987 ; B9999 B4035 B3930 B3838 B3747 ; B9999 B3521\*R B3510 B3372 ; B9999 B3430 B3372 ; Q9999 Q6791 ; B9999 B5094 B4977 B4740 ; B9999 B3930\*R B3838 B3747 ; B9999 B3907 B3838 B3747 ; B9999 B3554\*R ; B9999 B3496 B3485 B3372 ; B9999 B4091\*R B3838 B3747 ; B9999 B4568\*R ; N9999 N6177\*R Polymer Index [2.3] 018 ; R05079 D01 D11 D10 D50 D63 D89 F42 ; C999 C102 C000 ; C999 C317 ; P0033

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-095964

**WEST**☐ **Generate Collection** ☐ **Print**

L13: Entry 1 of 3

File: DWPI

Oct 1, 1996

DERWENT-ACC-NO: 1993-274828  
DERWENT-WEEK: 199645  
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TITLE: Cosmetic or dermatologic oil in water dispersion compsn., for composite film - comprises organo fluorohydrocarbon phase and liq. phase dispersed in aq. soln. of water soluble film forming polymer free of hydroxyethyl, for aq. nail varnish

INVENTOR: ARNAUD, P; MELLUL, M

PATENT-ASSIGNEE:

ASSIGNEE	CODE
L'OREAL SA	OREA

PRIORITY-DATA: 1992FR-0002295 (February 27, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2089743 T3	October 1, 1996		000	A61K007/48
EP 558423 A1	September 1, 1993	F	012	A61K007/48
FR 2688006 A1	September 3, 1993		021	C08J003/09
EP 558423 B1	May 22, 1996	F	017	A61K007/48
DE 69302727 E	June 27, 1996		000	A61K007/48

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

CITED-DOCUMENTS: 2.Jnl.Ref; EP 158996 ; EP 196904 ; EP 360292 ; EP 390206 ; FR 2311564 ; GB 2190393 ; JP04210613 ; JP63107910 ; US 4059688 ; US 4087394 ; WO 9112793 ; 02Jnl.Ref

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ES 2089743T3	February 26, 1993	1993EP-0400509	
ES 2089743T3		EP 558423	Based on
EP 558423A1	February 26, 1993	1993EP-0400509	
FR 2688006A1	February 27, 1992	1992FR-0002295	
EP 558423B1	February 26, 1993	1993EP-0400509	
DE69302727E	February 26, 1993	1993DE-0602727	
DE69302727E	February 26, 1993	1993EP-0400509	
DE69302727E		EP 558423	Based on

INT-CL (IPC): A61K 7/00; A61K 7/02; A61K 7/043; A61K 7/06; A61K 7/48; C08J 3/09; C08K 5/02

ABSTRACTED-PUB-NO: EP 558423A

BASIC-ABSTRACT:

The compsn. comprises; (A) a fluorinated phase contg. organo fluorohydrocarbon cpd(s). (I) comprises a hydrocarbon in which at least 70 (at least 95) % of the H atoms are replaced by F; dispersed in (B) an aq. soln. of water-soluble film-forming

polymer(s) (II) free of -CH(OH)-CH<sub>2</sub>- units.

Phase (A) pref. forms 0.01-70 (0.1-50) wt.% of the compsn.. Phase (A) opt. contains cpd(s). (I) solid at room temp. dissolved in cpd(s). (I) which is liq. at room temp.. Size of dispersed particles is pref. 0.2-50 (0.5-10) microns.

USE/ADVANTAGE - The compsn. is used as a gel, mask, cream, eyeliner, mascara, aq. nail varnish, aq. lacquer or temporary hair colouring prod.. (I) form films with high stability, suppleness and elasticity, reduced water sensitivity, reduced stickiness on contact with water and slower redissolution and a soft and pleasant (I) remains completely dispersent in the composite film.

ABSTRACTED-PUB-NO:

EP 558423B

EQUIVALENT-ABSTRACTS:

Cosmetic of dermatological composition in the form of an oil-in-water dispersion capable of forming a composite film by evaporation of the aqueous phase, characterized in that it comprises a fluorine-containing phase consisting of at least one organic fluorine-containing hydrocarbon compound which is a hydrocarbon at least 70 % and preferably at least 95 % of whose hydrogen atoms have been substituted by fluorine atoms, the said phase being dispersed in an aqueous solution of at least one water-soluble film-forming polymer devoid of units of the following formula (I);

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: COSMETIC DERMATOLOGY OIL WATER DISPERSE COMPOSITION COMPOSITE FILM COMPRISE ORGANO FLUOROCARBON PHASE LIQUID PHASE DISPERSE AQUEOUS SOLUTION WATER SOLUBLE FILM FORMING POLYMER FREE HYDROXYETHYL AQUEOUS NAIL VARNISH

DERWENT-CLASS: A96 D21 E19

CPI-CODES: A12-V04A; A12-V04C; D08-B01; D08-B02; D08-B06; D08-B09A; E07-A02E; E07-A02J; E07-E03; E09-D01; E10-B04E; E10-E03; E10-H01A; E10-H01C; E10-H02A; E10-H02B;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

F012 F013 F014 F015 F016 F017 F019 F020 F021 F113  
F653 G024 G037 G040 G050 G051 H103 H181 H401 H402  
H404 H481 H482 H484 H498 H581 H582 H583 H584 H589  
H6 H601 H608 H609 H681 H682 H684 H685 H689 H721  
J012 J271 J272 M210 M211 M225 M231 M262 M272 M280  
M281 M311 M312 M313 M314 M315 M316 M321 M322 M323  
M331 M332 M333 M343 M344 M362 M363 M383 M391 M392  
M393 M413 M414 M415 M416 M510 M521 M531 M541 M620  
M781 M782 M903 M904 Q252 Q254 R011 R021 R024 R043

Markush Compounds

199335-B3001-M 199335-B3001-U 199335-B3002-M 199335-B3002-U 199335-B3003-M  
199335-B3003-U 199335-B3004-M 199335-B3004-U 199335-B3005-M 199335-B3005-U  
199335-B3006-M 199335-B3006-U 199335-B3007-M 199335-B3007-U 199335-B3008-M  
199335-B3008-U 199335-B3009-M 199335-B3009-U 199335-B3010-M 199335-B3010-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; R01859 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D92 F24 F29 F26 F34  
H0293 P0599 G3623 ; R03005 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D93 F24 F29 F26 F34 H0293  
P0599 G3623 ; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D89 F24 F34 H0293 P0599 G3623 ;  
R01865 G3678 G3634 G3623 P0599 D01 D03 D11 D23 D31 D42 D50 D92 F24 F26 F34 H0293 ; R01835 G3678  
G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D60 D92 F24 F34 F38 F35 H0293 P0599 G3623 ; R16377 D01  
P0599 G3623 ; R03104 P0599 D01 G3623 ; R24037 G3623 D01 D61 F35 P0599 ; R01866 D01 D23 D22 D31 D42 D50  
D60 D86 F24 F28 F26 F34 F36 F35 H0293 P0599 G3623 ; R24036 G3623 D01 D03 D05 D11 D10 D23 D22 D24 D31

D32 D42 D46 D50 D60 D86 D92 F24 F27 F29 F26 F34 F60 H0293 P0599 ; P0599 ; S9999 S1616 S1605 Polymer Index [1.2] 017 ; G0260\*R G0022 D01 D12 D10 D51 D53 G0339\*R G0260 D63 F41 G0384\*R G0339 D58 G0635 D23 D22 D31 D41 D86 F71 G0317 G0271 D59 D84 F36 F35 ; R00824 G0588 G0022 D01 D11 D10 D12 D51 D53 D58 D83 F34 ; R00843 G0760 G0022 D01 D23 D22 D31 D42 D51 D53 D59 D65 D84 F39 E00 E01 ; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 ; H0000 ; H0011\*R ; S9999 S1616 S1605 ; P1592\*R F77 ; P0088 Polymer Index [1.3] 017 ; ND01 ; K9745\*R ; Q9999 Q9176 Q9165 ; Q9999 Q9187 Q9165 ; B9999 B3521 B3510 B3372

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0030 0038 0203 0218 0231 0430 0431 0436 0486 0487 0492 0500 0501 0506 0787 0788 0793 0878 0879 0884 0906 0907 0912 1294 1415 1416 1421 1985 1989 2509 2575 2761 3198 3199 3200 3201 3202

Multipunch Codes: 017 034 04- 040 05- 066 067 074 075 077 079 081 086 091 093 101 104 105 106 150 155 157 231 240 252 255 259 398 52& 53& 532 537 54& 546 55& 56& 57- 688 728

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-122530

**WEST**☐ **Generate Collection** 

L15: Entry 1 of 3

File: DWPI

Dec 1, 1998

DERWENT-ACC-NO: 1995-276095

DERWENT-WEEK: 199903

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TITLE: Amphiphilic polyester(s), useful as detergent additives - contain ester blocks based on poly:alkylene glycol(s) and aliphatic di:acids or hydroxy-acids, and ester blocks based on aromatic di:acids

INVENTOR: BOECKH, D; JAEGER, H ; SCHORNICK, G

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BASF AG

BADI

PRIORITY-DATA: 1994DE-4403866 (February 8, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2121623 T3	December 1, 1998		000	C08G063/66
DE 4403866 A1	August 10, 1995		009	C08G063/66
WO 9521880 A1	August 17, 1995	G	016	C08G063/66
EP 743962 A1	November 27, 1996	G	000	C08G063/66
JP 09509199 W	September 16, 1997		020	C08G063/66
US 5777046 A	July 7, 1998		000	C08F020/00
EP 743962 B1	October 7, 1998	G	000	C08G063/66
DE 59503856 G	November 12, 1998		000	C08G063/66

DESIGNATED-STATES: CA JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE AT BE CH  
DE DK ES FR GB IE IT LI NL PT SE AT BE CH DE DK ES FR GB IE IT LI NL PT SE

CITED-DOCUMENTS: EP 110267; EP 241984 ; US 3083187 ; US 3310512

APPLICATION-DATA:



PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ES 2121623T3	January 28, 1995	1995EP-0906354	
ES 2121623T3		EP 743962	Based on
DE 4403866A1	February 8, 1994	1994DE-4403866	
WO 9521880A1	January 28, 1995	1995WO-EP00300	
EP 743962A1	January 28, 1995	1995EP-0906354	
EP 743962A1	January 28, 1995	1995WO-EP00300	
EP 743962A1		WO 9521880	Based on
JP09509199W	January 28, 1995	1995JP-0520926	
JP09509199W	January 28, 1995	1995WO-EP00300	
JP09509199W		WO 9521880	Based on
US 5777046A	January 28, 1995	1995WO-EP00300	
US 5777046A	August 5, 1996	1996US-0687322	
US 5777046A		WO 9521880	Based on
EP 743962B1	January 28, 1995	1995EP-0906354	
EP 743962B1	January 28, 1995	1995WO-EP00300	
EP 743962B1		WO 9521880	Based on
DE59503856G	January 28, 1995	1995DE-0503856	
DE59503856G	January 28, 1995	1995EP-0906354	
DE59503856G	January 28, 1995	1995WO-EP00300	
DE59503856G		EP 743962	Based on
DE59503856G		WO 9521880	Based on

INT-CL (IPC): C08 F 20/00; C08 G 63/66; C08 G 63/668; C08 G 63/78; C08 G 81/00; C11 D 3/37

ABSTRACTED-PUB-NO: DE 4403866A  
BASIC-ABSTRACT:

Amphiphilic polyesters with a mol. wt. of 1500-25,000 (I) contain blocks of (a) ester units derived from (a1) polyalkylene glycols with a mol.wt. of 500-7500 and (a2) aliphatic dicarboxylic acids and/or monohydroxy-monocarboxylic acids, and (b) ester units derived from aromatic di-acids and polyhydric alcohols.

Also claimed is a prepn. of (I), by polycondensation of (a1) with (a2) followed by prepn. of polyester (b) in the presence of the resulting aliphatic polyester (a), or by reversing the sequence of polycondensation or by condensing an oligomeric polyester (b) with an oligomeric polyester (a).

Pref. wt. ratio of ester units (a):(b) = (5:1)-(1:2), pref. (3:1)-(1:1).

USE - Used as additives in detergents and in other detergent additives and after-wash treatment materials (claimed).

ADVANTAGE - Provides new detergent additives with good dirt removing properties and better biodegradability than corresp. polyesters based on aromatic acids only.  
ABSTRACTED-PUB-NO:

EP 743962B  
EQUIVALENT-ABSTRACTS:

Amphiphilic polyesters with a mol. wt. of 1500-25,000 (I) contain blocks of (a) ester units derived from (a1) polyalkylene glycols with a mol.wt. of 500-7500 and (a2) aliphatic dicarboxylic acids and/or monohydroxy-monocarboxylic acids, and (b) ester units derived from aromatic di-acids and polyhydric alcohols.

Also claimed is a prepn. of (I), by polycondensation of (a1) with (a2) followed by prepn. of polyester (b) in the presence of the resulting aliphatic polyester (a), or by reversing the sequence of polycondensation or by condensing an oligomeric polyester

(b) with an oligomeric polyester (a).

Pref. wt. ratio of ester units (a):(b) = (5:1)-(1:2), pref. (3:1)-(1:1).

USE - Used as additives in detergents and in other detergent additives and after-wash treatment materials (claimed).

ADVANTAGE - Provides new detergent additives with good dirt removing properties and better biodegradability than corresp. polyesters based on aromatic acids only.

US 5777046A

Amphiphilic polyesters with a mol. wt. of 1500-25,000 (I) contain blocks of (a) ester units derived from (a1) polyalkylene glycols with a mol.wt. of 500-7500 and (a2) aliphatic dicarboxylic acids and/or monohydroxy-monocarboxylic acids, and (b) ester units derived from aromatic di-acids and polyhydric alcohols.

Also claimed is a prepn. of (I), by polycondensation of (a1) with (a2) followed by prepn. of polyester (b) in the presence of the resulting aliphatic polyester (a), or by reversing the sequence of polycondensation or by condensing an oligomeric polyester (b) with an oligomeric polyester (a).

Pref. wt. ratio of ester units (a):(b) = (5:1)-(1:2), pref. (3:1)-(1:1).

USE - Used as additives in detergents and in other detergent additives and after-wash treatment materials (claimed).

ADVANTAGE - Provides new detergent additives with good dirt removing properties and better biodegradability than corresp. polyesters based on aromatic acids only.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: AMPHIPHILIC POLYESTER USEFUL DETERGENT ADDITIVE CONTAIN ESTER BLOCK BASED POLY ALKYLENE GLYCOL ALIPHATIC DI ACID HYDROXY ACID ESTER BLOCK BASED AROMATIC DI ACID

DERWENT-CLASS: A23 A97 D25

CPI-CODES: A05-E09; A10-D05; A12-W12A; A12-W12B; D11-A01A; D11-A03A4; D11-A04; D11-D06;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0702S; 0760S ; 0842S ; 1711S ; 2044S

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; G1343\*R G1310 D01 D60 F37 F35 E00 D10\*R ; G2108\*R D01 D60 F35 F27 F26 F36 ; G1343\*R G1310 D01 D60 F37 F35 E00 D18\*R ; R00702 G1343 G1310 D01 D19 D18 D31 D50 D60 D88 F37 F35 E00 E21 ; G1070\*R G0997 D01 F29 F26 ; G1025\*R G0997 D01 F28 F26 ; R00822 G1025 G0997 D01 D11 D10 D50 D82 F28 F26 ; R00842 G1401 G1398 D01 D23 D22 D31 D42 D50 D65 D84 F39 E00 E11 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D82 F47 ; P0953 P0839 P0964 H0260 F34 F41 D01 D63 ; H0044\*R H0011 ; H0260 ; H0033 H0011 ; L9999 L2528 L2506 ; L9999 L2186\*R ; H0293 ; P0055 Polymer Index [1.2] 017 ; ND01 ; B9999 B5094 B4977 B4740 ; Q9999 Q7045 Q7034 ; B9999 B3021 B3010 Polymer Index [1.3] 017 ; R00760 G2028 D01 D11 D10 D19 D18 D31 D50 D60 D87 F62 ; D01 D00 D60 F53 H\* P\* 5A O\* 6A ; C999 C000\*R ; C999 C306

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-125197

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NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents  
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NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
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NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2  
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NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 15 Dec 10 DGENE BLAST Homology Search  
NEWS 16 Dec 17 WELDASEARCH now available on STN  
NEWS 17 Dec 17 STANDARDS now available on STN  
NEWS 18 Dec 17 New fields for DPCI  
NEWS 19 Dec 19 CAS Roles modified  
NEWS 20 Dec 19 1907-1946 data and page images added to CA and Caplus  
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NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002

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FILE 'HOME' ENTERED AT 10:52:59 ON 12 FEB 2002

=> fil caplus uspatfull embase biosis kosmet  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.15	0.15

FULL ESTIMATED COST

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FILE 'KOSMET' ENTERED AT 10:53:21 ON 12 FEB 2002  
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=> s (graft polymer or graft copolymer) (s) (polyvinyl ester or vinyl ester)  
L1 181 (GRAFT POLYMER OR GRAFT COPOLYMER) (S) (POLYVINYL ESTER OR  
VINYL  
ESTER)

=> s acetoxymethylene or acetoxymethene or ethenyl acetate or ponal or vinayl a  
monomer or vinyl acetate or acetic acid ethenyl ester or acetic acid vinyl  
ester  
L2 149400 ACETOXYMETHYLENE OR ACETOXYMETHENE OR ETHENYL ACETATE OR PONAL  
OR  
VINAYL A MONOMER OR VINYL ACETATE OR ACETIC ACID ETHENYL ESTER  
OR ACETIC ACID VINYL ESTER

=> s peg or polyethylene glycol or pluriol e 600  
L3 70708 PEG OR POLYETHYLENE GLYCOL OR PLURIOL E 600

=> s peg or polyethylene glycol or pluriol e 600  
L4 208115 PEG OR POLYETHYLENE GLYCOL OR PLURIOL E 600

=> s free radical initiator  
L5 9850 FREE RADICAL INITIATOR

=> s liquid polyalkylene glycol  
L6 41 LIQUID POLYALKYLENE GLYCOL

=> s l1 and l2 and l3 and l4 and l5  
L7 4 L1 AND L2 AND L3 AND L4 AND L5

=> dup rem l7  
DUPLICATE IS NOT AVAILABLE IN 'KOSMET'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L7  
L8 4 DUP REM L7 (0 DUPLICATES REMOVED)

=> d ibib abs

L8 ANSWER 1 OF 4 USPATFULL

ACCESSION NUMBER: 93:33368 USPATFULL  
 TITLE: Graft polymer with unsaturated lateral chains, photosensitive mixture containing said graft polymer and recording material produced therefrom  
 INVENTOR(S): Mueller-Hess, Waltraud, Wiesbaden, Germany, Federal Republic of  
 Mohr, Dieter, Budenheim, Germany, Federal Republic of  
 Kroggel, Matthias, Kelkheim, Germany, Federal Republic of  
 PATENT ASSIGNEE(S): Hoechst Aktiengesellschaft, Frankfurt am Main, Germany,  
 Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5206113		19930427
APPLICATION INFO.:	US 1990-575642		19900831 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1989-3928825	19890831
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Mc Camish, Marion E.	
ASSISTANT EXAMINER:	Berman, Susan	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1362	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a graft polymer comprising a polyurethane graft backbone and grafted-on chains comprising vinyl alcohol units and units with lateral styrylpyridinium or styrylquinolinium groups, and also a photocurable mixture comprising the graft polymer and a photosensitive compound, such as a photosensitizer of a negative-working diazo compound. The mixture is suited for the production of printing plates, in particular planographic printing plates, and photoresists. Printing plates prepared from the mixture are distinguished by high photospeed, good developability with aqueous solutions and long print runs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 2 ibib abs

L8 ANSWER 2 OF 4 USPATFULL

ACCESSION NUMBER: 92:61830 USPATFULL  
 TITLE: Graft polymer with unsaturated lateral chains, photosensitive mixture containing said graft polymer and recording material produced therefrom  
 INVENTOR(S): Mueller-Hess, Waltraud, Wiesbaden, Germany, Federal Republic of  
 Mohr, Dieter, Budenheim, Germany, Federal Republic of  
 Kroggel, Matthias, Kelkheim, Germany, Federal Republic of  
 PATENT ASSIGNEE(S): Hoechst Aktiengesellschaft, Frankfurt am Main, Germany,  
 Federal Republic of (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5134053	19920728
APPLICATION INFO.:	US 1990-558477	19900727 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1989-3924811	19890727
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	McCamish, Marion E.	
ASSISTANT EXAMINER:	Berman, Susan	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1364	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a photocurable mixture which is suited for the production of printing plates, in particular planographic printing plates, and photoresists. The mixture comprises a graft polymer comprised of a polyurethane as the graft backbone and grafted-on chains containing vinyl alcohol units and units with lateral, polymerizable or crosslinkable double bonds, and a photosensitive compound, such as a photoinitiator or a negative-working diazo compound.

The printing plates prepared from the mixture are distinguished by high photospeed, good developability with aqueous solutions and long print runs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 3 ibib abs

L8 ANSWER 3 OF 4 USPATFULL

ACCESSION NUMBER: 91:80005 USPATFULL

TITLE: Graft polymers, containing polyvinyl acetal groups, on polyurethane grafting substrates, processes for the preparation thereof, and the use therefor

INVENTOR(S): Kroggel, Matthias, Kelkheim, Germany, Federal Republic of  
Rauterkus, Karl-Josef, Kelkheim, Germany, Federal Republic of

Hermann, Hans-Dieter, Bad Soden am Taunus, Germany, Federal Republic of

PATENT ASSIGNEE(S): Hoechst AG, Wiesbaden, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5053455		19911001
APPLICATION INFO.:	US 1991-658050		19910220 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1989-424064, filed on 19 Oct 1989		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1988-38358409	19881021
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bleutge, John C.	

ASSISTANT EXAMINER: Hamilton, III, Thomas  
LEGAL REPRESENTATIVE: Bierman and Muserlian  
NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
LINE COUNT: 828

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymers with polyvinyl acetal groups, which contain acetalized polyvinyl alcohol groups on polyurethane grafting substrates and which are prepared from graft polymers, containing vinyl alcohol groups on polyurethane grafting substrates, by reaction with aldehydes according to known methods. The aldehydes used can be any known aldehydes capable of acetalization reactions.

The polyurethane grafting substrates contain at least 2 urethane groups in the molecule and units from diisocyanates and diols, and polymer radicals of units of vinyl carboxylates having 3 to 20 carbon atoms and/or hydrolysis products thereof and, if appropriate, further monomer units are grafted onto the polyurethane grafting substrates. The proportion of vinyl alcohol units in the hydrolyzed or partially hydrolyzed graft polymers before the acetalization is >10% by weight.

In the acetalized polymer, the content of residual unacetalized vinyl alcohol units is >7.5 mol %, relative to the molar content (=100 mol %) of vinyl alcohol units in the starting graft polyvinyl alcohol before acetalization.

Use of the graft polyvinyl acetals as a constituent of coating compositions, as a coating agent constituent for the diverse substrates,  
as a material for thermoplastically processable moldings and as an interleaving film in laminated glasses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 4 ibib abs

L8 ANSWER 4 OF 4 USPATFULL

ACCESSION NUMBER: 91:59018 USPATFULL

TITLE: Graft polymers, containing polyvinyl acetal groups, on polyurethane grafting substrates, processes for the preparation thereof, and the use thereof

INVENTOR(S): Kroggel, Matthias, Kelkheim, Germany, Federal Republic of  
Rauterkus, Karl-Josef, Kelkheim, Germany, Federal Republic of

Hermann, Hans-Dieter, Bad Soden am Taunus, Germany, Federal Republic of

PATENT ASSIGNEE(S): Hoechst AG, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5034475		19910723
APPLICATION INFO.:	US 1989-424064		19891019 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1988-3835840	19881021
DOCUMENT TYPE:	Utility	

FILE SEGMENT: Granted  
PRIMARY EXAMINER: Marquis, Melvyn I.  
ASSISTANT EXAMINER: Hamilton, III, Thomas  
LEGAL REPRESENTATIVE: Bierman and Muserlian  
NUMBER OF CLAIMS: 12  
EXEMPLARY CLAIM: 1  
LINE COUNT: 838

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymers with polyvinyl acetal groups, which contain acetalized polyvinyl alcohol groups on polyurethane grafting substrates and which are prepared from graft polymers, containing vinyl alcohol groups on polyurethane grafting substrates, by reaction with aldehydes according to known methods. The aldehydes used can be any known aldehydes capable of acetalization reactions.

The polyurethane grafting substrates contain at least 2 urethane groups in the molecule and units from diisocyanates and diols, and polymer radicals of units of vinyl carboxylates having 3 to 20 carbon atoms and/or hydrolysis products thereof and, if appropriate, further monomer units are grafted onto the polyurethane grafting substrates. The proportion of vinyl alcohol units in the hydrolyzed or partially hydrolyzed graft polymers before the acetalization is >10% by weight.

In the acetalized polymer, the content of residual unacetalized vinyl alcohol units is >7.5 mol %, relative to the molar content (=100 mol %) of vinyl alcohol units in the starting graft polyvinyl alcohol before acetalization.

The graft polyvinyl acetals may be used as a constituent of coating compositions, as a coating agent constituent for the diverse substrates,  
as a material for thermoplastically processable moldings and as an interleaving film in laminated glasses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 10:52:59 ON 12 FEB 2002)

FILE 'CAPLUS, USPATFULL, EMBASE, BIOSIS, KOSMET' ENTERED AT 10:53:21 ON 12 FEB 2002

L1 181 S (GRAFT POLYMER OR GRAFT COPOLYMER) (S) (POLYVINYL ESTER OR VI  
L2 149400 S ACETOXYETHYLENE OR ACETOXYETHENE OR ETHENYL ACETATE OR PONAL  
L3 70708 S PEG OR POLYETHYLENE GLYCOL OR PLURIOL E 600  
L4 208115 S PEG OR POLYETHYLENE GLYCOL OR PLURIOL E 600  
L5 9850 S FREE RADICAL INITIATOR  
L6 41 S LIQUID POLYALKYLENE GLYCOL  
L7 4 S L1 AND L2 AND L3 AND L4 AND L5  
L8 4 DUP REM L7 (0 DUPLICATES REMOVED)

=> s 15 (s) 16

L9 1 L5 (S) L6

=> s 15(s)14

L10 53 L5(S) L4



=> log y  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
91.61	91.76

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 11:02:31 ON 12 FEB 2002